

Review of: "Challenges and Prospects of Aerosol-Cloud-Precipitation Studies Over Africa"

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Potential competing interests: No potential competing interests to declare.

The topic is of great relevance, given the increasing need to understand the interactions between aerosols, clouds, and precipitation in a very particular area such as Africa. The overall structure of the paper is well organised, but it could be further improved. Clarity is generally good, although some technical parts could be more detailed.

The paper makes an important contribution to the topic by addressing critical issues concerning data collection, modelling, and the impact of these interactions on climate and society. However, there are some aspects that require further investigation, especially in terms of linkages between field campaigns and scientific implications, as well as a more critical discussion of technical limitations and infrastructural challenges in Africa.

It would be useful to provide a broader view of current gaps in the literature with similar studies in other regions of the world to explain the importance of the African context, highlighting what distinguishes Africa from other continents in terms of atmospheric and topographic variability.

Several campaigns are presented; some parts are descriptive without giving enough indication of the scientific implications of these studies.

It might be useful to expand the section on innovative approaches, such as the use of machine learning techniques and data integration to improve model predictions, providing specific examples of algorithms or emerging technologies.

It is a review article that only describes the various aspects but does not go into detail and does not give specific judgements or indications about the different techniques. With minor revisions focused on reorganising some sections and adding critical details, this paper could be published.